

A	AGG	GGC	GCT	GCC	GCG	AGC	CTC	CGG	GCC	TCA	GGG	TGT	TCC	GGG	GAG	CGG	CGC
	9	18	27	36	45	54											
CCC	GGG	TCT	CTG	GGC	CCA	CCC	GCC	CGG	GGC	GTC	CTC	CGA	GAG	TGG	GGG	CTG	CGC
CCG	GGG	GGT	CAG	ACA	CCT	GTT	CGG	CCC	GGC	CCG	GCG	TGG	TCG	CCG	GGG	GCC	AGG
ATG	AAA	GTG	ACC	GTG	TGC	TTC	GGC	AGG	ACG	GGC	ATC	GTG	GTG	CCC	TGC	AAG	GAG
M	K	V	T	V	C	F	G	R	T	G	I	V	V	P	C	K	E
GGC	CAG	CTG	CGC	GTC	GGC	GAG	CTC	ACC	CAG	CAG	CGC	CTG	CAG	CGG	TAC	CTG	AAG
G	Q	L	R	V	G	E	L	T	Q	Q	A	L	Q	R	Y	L	K
ACC	CGG	GAG	AAG	GGT	CCT	GGT	TAC	TGG	GTG	AAG	ATT	CAT	CAC	TTA	GAA	TAT	ACA
T	R	E	K	G	P	G	Y	W	V	K	I	H	L	E	Y	T	

FIGURE 1A

333	342	351	360	369	378
GAT	GGA	ATC	CTG	GAT	AAA
D	G	I	L	D	
387	396	405	414	423	432
GAC	AAG	CTG	ATT	GCT	
D	K	L	I	A	
441	450	459	468	477	486
CCC	AGT	GGA	AAC	CCT	
P	S	G	N	P	
495	504	513	522	531	540
GCC	CAA	CTG	GCT	GCA	
A	A	Q	L	A	
549	558	567	576	585	594
TCT	GCT	CTA	AAA	CTA	
S	A	L	K	T	

FIGURE 1B

603 612 621 630 639 648  
CCA GGC CCT GCT GAT ACC CAG CCA AGC GCT TCA CAC CCT GGT GGC CAG AGT  
P G P A D T Q P S A S H P G G Q S

657 666 675 684 693 702  
CTG AAA CTG GTT GTT CCA GAT TCC ACG CAG AAC TCG GAA GAC AGA GAA GTT TTG  
L K L V V P D S T Q N L E D R E V L  
711 720 729 738 747 756  
AAT GGT GTA CAG ACA GAA CTA CTA ACT TCG CCA AGA ACT AAG GAC ACA TTG AGT  
N G V Q T E L L T S P R T K D T L S

765 774 783 792 801 810  
GAT ATG ACA AGA ACA GTG GAG ATT TCT GGG GAA GGA GGC CCA TTG GGA ATA CAT  
D M T R T V E I S G E G G P L G I H  
819 828 837 846 855 864  
GTA GTG CCC TTC TTT TCA TCT CTG AGT GGA AGG ATT CTA GGA CTC TTC ATC CGA  
V V P F F S S L S G R I L G L F I R

FIGURE 1C

GGC	ATT	GAA	GAC	AAC	AGC	AGG	TCC	AAG	CGG	GAG	GGA	CTA	TTT	CAC	GAA	AAT	GAA
G	I	E	D	N	S	R	S	K	R	E	G	L	F	H	E	N	E
927		936		945		954		963		972							
TGT	ATT	GTA	AAA	ATC	AAC	AAT	GTG	GAT	CTC	GTA	GAC	AAA	ACC	TTT	GCT	CAG	GCT
C	I	V	K	I	N	N	V	D	L	V	D	K	T	F	A	Q	A
981		990		999		1008		1017		1026							
CAA	GAT	GTC	TTC	CGC	CAG	GCA	ATG	AAA	TCT	CCA	AGT	GTG	CTC	CTC	CAC	GTG	CTT
Q	D	V	F	R	Q	A	M	K	S	P	S	V	L	L	H	V	L
1035		1044		1053		1062		1071		1080							
CCT	CCA	CAA	AAC	CGT	GAA	CAG	TAT	GAA	AAG	TCA	GTC	ATT	GGC	TCT	CTT	AAC	ATT
P	P	Q	N	R	E	Q	Y	E	K	S	V	I	G	S	L	N	I
1089		1098		1107		1116		1125		1134							
TTT	GGT	AAT	AAT	GAT	GGC	GTT	TTG	AAA	ACC	AAA	GTG	CCG	CCT	GTC	CAT	GGA	
F	G	N	N	D	G	V	L	K	T	K	V	P	P	P	V	H	G

## FIGURE 1D

1143	1152	1161	1170	1179	1188
AAA TCG GGA CTA AAG ACA GCA AAT CTC ACA GGA ACC GAT AGT CCT GAA ACA GAT	-----	-----	-----	-----	-----
K S G L K T A N L T G T D S P E T D	-----	-----	-----	-----	-----
1197	1206	1215	1224	1233	1242
GCA TCA GCT TCC CTG CAA AAC CAA AAG AGT CCC CGA GTA CCA AGG CTG GGA GGA	-----	-----	-----	-----	-----
A S A S L Q Q N K S P R V P R L G G	-----	-----	-----	-----	-----
1251	1260	1269	1278	1287	1296
AAA CCA TCC TCT CCC TCA CTC TCG CCT CTC ATG GGA TTT GGC AGC AAT AAA AAT	-----	-----	-----	-----	-----
K P S S P S L S P L M G F G S N K N	-----	-----	-----	-----	-----
1305	1314	1323	1332	1341	1350
GCA AAG AAA ATT AAG ATT GAC CTA AAG AAA GGC CCT GAA GGA CTT GGT TTC ACT	-----	-----	-----	-----	-----
A K K I K I D L K G P E G L G F T	-----	-----	-----	-----	-----
1359	1368	1377	1386	1395	1404
GTG GTT ACC AGA GAC TCT TCC ATA CAT GGT CCC GGT CCC ATT TTT GTA AAA AAC	-----	-----	-----	-----	-----
V V T R D S S I H G P I F V K N	-----	-----	-----	-----	-----

FIGURE 1E

卷之三

1413	ATT	TTA	CCA	AAG	GGA	GCA	GCA	ATA	AAA	GAT	GGC	CGC	CTA	CAA	TCA	GGG	GAC	AGA	
1422	ATT	TTG	GAG	GTA	AAT	GGG	AGA	GAT	GTC	ACC	GGA	CGA	ACC	CAG	GAA	GAG	CTT	GTG	
1431	ATT	TTG	GAG	GTC	AAG	AGA	GAT	GTC	ACC	GGA	CGA	ACC	CAG	GAA	GAG	CTT	GTG		
1440	ATT	TTG	GAG	GTC	AAG	AGA	GAT	GTC	ACC	GGA	CGA	ACC	CAG	GAA	GAG	CTT	GTG		
1449	ATT	TTG	GAG	GTC	AAG	AGA	GAT	GTC	ACC	GGA	CGA	ACC	CAG	GAA	GAG	CTT	GTG		
1458	ATT	TTG	GAG	GTC	AAG	AGA	GAT	GTC	ACC	GGA	CGA	ACC	CAG	GAA	GAG	CTT	GTG		
1467	ATT	TTG	GAG	GTC	AAG	AGA	GAT	GTC	ACC	GGA	CGA	ACC	CAG	GAA	GAG	CTT	GTG		
1476	ATT	TTG	GAG	GTC	AAG	AGA	GAT	GTC	ACC	GGA	CGA	ACC	CAG	GAA	GAG	CTT	GTG		
1485	ATT	TTG	GAG	GTC	AAG	AGA	GAT	GTC	ACC	GGA	CGA	ACC	CAG	GAA	GAG	CTT	GTG		
1494	ATT	TTG	GAG	GTC	AAG	AGA	GAT	GTC	ACC	GGA	CGA	ACC	CAG	GAA	GAG	CTT	GTG		
1503	ATT	TTG	GAG	GTC	AAG	AGA	GAT	GTC	ACC	GGA	CGA	ACC	CAG	GAA	GAG	CTT	GTG		
1512	ATT	TTG	GAG	GTC	AAG	AGA	GAT	GTC	ACC	GGA	CGA	ACC	CAG	GAA	GAG	CTT	GTG		
1521	GCC	ATG	CTC	AGG	AGC	ACC	AAG	CAG	GGG	GAG	ACA	GCA	TCG	CTG	GTC	ATT	GCC	CGC	
1530	GCC	ATG	CTC	AGG	AGC	ACC	AAG	CAG	GGG	GAG	ACA	GCA	TCG	CTG	GTC	ATT	GCC	CGC	
1539	GCC	ATG	CTC	AGG	AGC	ACC	AAG	CAG	GGG	GAG	ACA	GCA	TCG	CTG	GTC	ATT	GCC	CGC	
1548	GCC	ATG	CTC	AGG	AGC	ACC	AAG	CAG	GGG	GAG	ACA	GCA	TCG	CTG	GTC	ATT	GCC	CGC	
1557	GCC	ATG	CTC	AGG	AGC	ACC	AAG	CAG	GGG	GAG	ACA	GCA	TCG	CTG	GTC	ATT	GCC	CGC	
1566	GCC	ATG	CTC	AGG	AGC	ACC	AAG	CAG	GGG	GAG	ACA	GCA	TCG	CTG	GTC	ATT	GCC	CGC	
1575	CAA	GAA	GGA	CAT	TTT	CTG	CCC	CGA	GAG	TTG	AAA	GGA	GAA	CCT	GAC	TGC	TGT	GCA	
1584	CAA	GAA	GGA	CAT	TTT	CTG	CCC	CGA	GAG	TTG	AAA	GGA	GAA	CCT	GAC	TGC	TGT	GCA	
1593	CAA	GAA	GGA	CAT	TTT	CTG	CCC	CGA	GAG	TTG	AAA	GGA	GAA	CCT	GAC	TGC	TGT	GCA	
1602	CAA	GAA	GGA	CAT	TTT	CTG	CCC	CGA	GAG	TTG	AAA	GGA	GAA	CCT	GAC	TGC	TGT	GCA	
1611	CAA	GAA	GGA	CAT	TTT	CTG	CCC	CGA	GAG	TTG	AAA	GGA	GAA	CCT	GAC	TGC	TGT	GCA	
1620	CAA	GAA	GGA	CAT	TTT	CTG	CCC	CGA	GAG	TTG	AAA	GGA	GAA	CCT	GAC	TGC	TGT	GCA	
1629	CTC	TCT	CTG	GAG	ACA	ACA	GAG	CAG	CAG	CTC	ACC	TTT	GAG	ATC	CCC	CTG	AAT	GAT	TCA
1638	CTC	TCT	CTG	GAG	ACA	ACA	GAG	CAG	CAG	CTC	ACC	TTT	GAG	ATC	CCC	CTG	AAT	GAT	TCA
1647	CTC	TCT	CTG	GAG	ACA	ACA	GAG	CAG	CAG	CTC	ACC	TTT	GAG	ATC	CCC	CTG	AAT	GAT	TCA
1656	CTC	TCT	CTG	GAG	ACA	ACA	GAG	CAG	CAG	CTC	ACC	TTT	GAG	ATC	CCC	CTG	AAT	GAT	TCA
1665	CTC	TCT	CTG	GAG	ACA	ACA	GAG	CAG	CAG	CTC	ACC	TTT	GAG	ATC	CCC	CTG	AAT	GAT	TCA
1674	CTC	TCT	CTG	GAG	ACA	ACA	GAG	CAG	CAG	CTC	ACC	TTT	GAG	ATC	CCC	CTG	AAT	GAT	TCA

## FIGURE 1F

1683 1692 1701 1710 1719 1728  
GGT TCT GCT GGC CTC GGG GTG AGC TTA AAA GGG AAC AAA TCC AGA GAA ACT GGA  
---  
G S A G L G V S L K G N K S R E T G

1737 1746 1755 1764 1773 1782  
ACA GAC TTG GGG ATT TTT ATC AAA TCC ATC ATT CAT GGA GGC GCT GCT TTT AAG  
---  
T D L G I F I K S I I H G G A A F K

1791 1800 1809 1818 1827 1836  
GAT GGT CGT CTG CGA ATG AAT GAC CAG CTG ATT GCA GTT AAT GGG GAA TCT CTT  
---  
D G R L R M N D Q L I A V N G E S L

1845 1854 1863 1872 1881 1890  
TTG GGA AAG TCC AAC CAC GAA GCT ATG GAA ACA CTT AGG CGG CCA ATG TCC ATG  
---  
L G K S N H E A M E T L R R P M S M

1899 1908 1917 1926 1935 1944  
GAG GGA AAC ATC CGA GGG ATG ATC CAG TTG GTG ATT CTG AGG AGG CCA GAG AGA  
---  
E G N I R G M I Q L V I L R R P E R

FIGURE 1G

“W” GAG GAT CCT GCA GAG TGT GGG GCA TTT TCC AAG CCA TGC TTT GAG AAC

CCA	ATG	GAG	GAT	CCT	GCA	GAG	TGT	GGG	GCA	TTT	TCC	AAG	CCA	TGC	TTT	GAG	AAC
P	M	E	D	P	A	E	C	G	A	F	S	K	P	C	F	E	N

TGT	CAA	AAT	GCT	GTA	ACC	ACC	TCT	AGG	CGA	AAT	GAT	AAT	AGT	ATC	CTG	CAT	CCA
C	Q	N	A	V	T	T	S	R	R	N	D	N	S	I	L	H	P

CTT	GGC	ACT	TGC	AGT	CCA	CAA	GAC	AAA	CAG	AAA	GGT	CTA	TTG	CTG	CCC	AAT	GAC
L	G	T	C	S	P	Q	D	K	Q	K	G	L	L	P	N	D	

GGA	TGG	GCC	GAG	AGT	GAA	GTT	CCA	CCT	TCT	CCA	ACA	CCA	CAT	TCT	GCT	CTG	GGA
G	W	A	E	S	E	V	P	P	S	P	T	P	H	S	A	L	G

TTC	GGC	CTC	GAA	GAT	TAC	AGC	CAC	AGC	TCT	GGG	GTG	GAT	TCA	GCA	GTA	TAT	TTT
L	G	L	E	D	Y	S	H	S	S	G	V	D	S	A	V	Y	F

FIGURE 1H

CCA	GAT	CAC	ATC	AAC	TTC	AGA	TCT	GTG	ACA	CCG	GCC	AGG	CAG	CCT	GAA	TCA
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P	D	Q	H	I	N	F	R	S	V	T	P	A	R	Q	P	E
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2277		2286		2295		2304		2313		2322						
ATT	AAT	TTG	AAA	GCC	TCG	AAG	AGC	ATG	GAC	CTT	GTG	CCA	GAT	GAA	AGC	AAG
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I	N	L	K	A	S	K	S	M	D	L	V	P	D	E	S	K
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2331		2340		2349		2358		2367		2376						
CAC	TCA	TTG	GCT	GGA	CAA	AAA	TCG	GAA	TCT	CCA	AGC	AAA	GAT	TTT	GGT	CCA
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
H	S	L	A	G	Q	K	S	E	S	P	S	K	D	F	G	P
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2385		2394		2403		2412		2421		2430						
CTG	GGT	TTG	AAA	AAG	TCC	AGC	TCC	TTG	GAG	AGT	CTG	CAG	ACT	GCA	GTG	GCC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L	G	L	K	S	S	S	L	E	S	L	Q	T	A	V	A	E
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2439		2448		2457		2466		2475		2484						
GTC	AGG	AAG	AAT	GAC	CTT	CCC	TTT	CAC	AGG	CCC	CGG	CCG	CAC	ATG	GTG	CGA
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V	R	K	N	D	L	P	F	H	R	P	H	M	V	R	G	-

FIGURE 11

卷之三

2493	CGA	GGC	TGC	AAT	GAG	AGC	TTT	AGA	GCA	GCC	ATT	GAC	AAA	TCC	TAC	GAT	GGA	CCT	2538
R	G	C	N	E	S	F	R	A	A	I	D	K	S	Y	D	G	P		
2547	GAA	GAA	ATA	GAA	GCT	GAC	GGT	CTG	TCT	GAT	AAG	AGC	TCT	CAC	TCT	GGC	CAA	GGA	2592
E	E	I	E	A	D	G	L	S	D	K	S	S	H	S	G	Q	G		
2601	GCT	CTG	AAT	TGT	GAG	TCT	GCC	CCT	CAG	GGG	AAT	TCG	GAG	CTA	GAG	GAC	ATG	GAA	2646
A	L	N	C	E	S	A	P	Q	G	N	S	E	L	E	D	M	E		
2655	AAT	AAA	GCC	AGG	AAA	GTC	AAA	AAA	ACG	AAA	GAG	AAG	GAG	AAG	AAA	AAG	GAA	AAG	2700
N	K	A	R	K	V	K	K	T	K	E	K	E	K	K	K	E	K		
2709	GGC	AAA	TTC	AAA	GTC	AAG	GAG	AAA	AAG	CGC	AAA	GAG	GAG	AAT	GAA	GAT	CCA	GAA	2754
G	K	L	K	V	K	E	K	K	R	K	E	E	N	E	D	P	E		

FIGURE 1J

卷之三

AGG	AAA	ATA	AAG	AAG	AAG	GGC	TTC	GGC	GCC	ATG	CTG	AGG	TAT	GGG	CCT	GCT	TTG
R	K	I	K	K	G	F	G	A	M	L	R	Y	G	P	A	L	
2817			2826			2835			2844			2853			2862		
AAG	GCA	AAG	TTG	GTT	CTC	ATT	TTG	TCT	CTC	CTG	AAA	AAA	GCG	CAC	GCT	TTT	CCT
K	A	K	L	V	L	I	L	S	L	L	K	K	A	H	A	F	P
2871			2880			2889			2898			2907			2916		
CGT	CTT	CAG	CCA	AAT	GCA	TAC	GGC	TCT	CAA	TTC	TGT	GCT	CGT	TCT	CTT	TCT	GCA
R	L	Q	P	N	A	Y	G	S	Q	F	C	A	R	S	L	S	A
2925			2934			2943			2952			2961			2970		
GAG	GCA	GAG	GAG	CTT	TTT	GGG	GAA	AGT	TAC	AGT	GAT	GAC	AGG	ACA	CTG	TCT	TAA
E	A	E	E	L	F	G	E	S	Y	S	D	D	R	T	L	L	S

FIGURE 1K

5'    ATG AAA GTG ACC GTC TGC TTC GGA CGG ACC CGG GTC GTG CCG TGC GGG GAC  
 --- M    K    V    T    V    C    F    G    R    T    R    V    V    P    C    G    D  
 --- GGC CAC ATG AAA GTT TTC AGC CTC ATC CAG CAG GCG GTG ACC CGC TAC CGG AAG  
 --- G    H    M    K    V    F    S    L    I    Q    Q    A    V    T    R    Y    R    K  
 --- GCC ATC GCC AAG GAT CCA AAC TAC TGG ATA CAG GTG CAT CGC TTG GAA CAT GGA  
 --- A    I    A    K    D    P    N    Y    W    I    Q    V    H    R    L    E    H    G  
 --- GAT GGA ATA CTA GAC CTT GAT GAC ATT CTT TGT GAT GTA GCA GAC GAT AAA  
 --- D    G    G    I    L    D    L    D    I    L    C    D    V    A    D    D    K  
 --- GAC AGA CTG GTC GCA GTG TTT GAT GAG CAG GAT CCA CAT CAC GGA GGT GAT GGC  
 --- D    R    L    V    A    V    F    D    E    Q    D    P    H    H    G    G    D    G

FIGURE 2A

## TGGCGTGTGAACTGG

279	288	297	306	315	324
ACC AGT GCC AGT TCC ACG GGT ACC CAG AGC CCA GAG ATA TTT GGT AGT GAG CTT	-----	-----	-----	-----	-----
T S A S T G T Q S P E I F G S E L	-----	-----	-----	-----	-----
333 342 351 360 369 378	-----	-----	-----	-----	-----
GGC ACC AAC AAT GTC TCA GCC TTT CAG CCT TAC CAA GCA ACA AGT GAA ATT GAG	-----	-----	-----	-----	-----
G T N N V S A F Q P Y Q A T S E I E	-----	-----	-----	-----	-----
387 396 405 414 423 432	-----	-----	-----	-----	-----
GTC ACA CCT TCA GTC CTT CGA GCA AAT ATG CCT CTT CAT GTT CGA CGC AGT AGT	-----	-----	-----	-----	-----
V T P S V L R A N M P L H V R S S	-----	-----	-----	-----	-----
441 450 459 468 477 486	-----	-----	-----	-----	-----
GAC CCA GCT CTA ATT GGC CTC TCC ACT TCT GTC AGT GAT AGT AAT TTT TCC TCT	-----	-----	-----	-----	-----
D P A L I G L S T S V S D S N F S S	-----	-----	-----	-----	-----
495 504 513 522 531 540	-----	-----	-----	-----	-----
GAA GAG CCT TCA AGG AAA AAT CCC ACA CGC TGG TCA ACA ACA GCT GGC TTC CTC	-----	-----	-----	-----	-----
E E P S R K N P T R W S T T A G F L	-----	-----	-----	-----	-----

FIGURE 2B

卷之三

AAG	CAG	AAC	ACT	GCT	GGG	AGT	CCT	AAA	ACC	TGC	GAC	AGG	AAG	AAA	GAT	GAA	AAC	594
K	Q	N	T	A	G	S	P	K	T	C	D	R	K	D	E	N		
TAC	AGA	AGC	CTC	CCG	CGG	GAT	ACT	AGT	AAC	TGG	TCT	AAC	CAA	TTT	CAG	AGA	GAC	648
Y	R	S	L	P	R	D	T	S	N	W	S	N	Q	F	Q	R	D	
AAT	GCT	CGC	TCG	TCT	CTG	AGT	GCC	AGT	CAC	CAC	CCA	ATG	GTG	GGC	AAG	TGG	CTG	GAG
N	A	R	S	S	L	S	A	S	H	P	M	V	G	K	W	L	E	
AAA	CAA	GAA	CAG	GAT	GAG	GAT	GGG	ACA	GAA	GAG	GAT	AAC	AGT	CGT	GTT	GAA	CCT	756
K	Q	E	Q	D	E	D	G	T	E	E	D	N	S	R	V	E	P	
GTT	GGA	CAT	GCT	GAC	ACG	GGT	TTG	GAG	CAT	ATA	CCC	AAC	TTT	TCT	CTG	GAT	GAT	810
V	G	H	A	D	T	G	L	E	H	I	P	N	F	S	L	D	D	

FIGURE 2C

卷之三

## FIGURE 2D

卷之三

1089	1098	1107	1116	1125	1134
GCA	AAT	AAA	GAG	CAG	TAT
GAA	CAT	GAA	CAA	CAT	TCC
					CAA
					AGT
					GAG
					AAC
					AAT
					TAC
					TAT
A	N	K	E	Q	Y
					E
					Q
					L
					S
					Q
					S
					E
					K
					N
					N
					Y
					Y
1143	1152	1161	1170	1179	1188
TCA	AGC	CGT	TTT	AGC	CCT
					GAC
					TAT
					AGC
					AAC
					AGG
					AGT
					GTG
					AAC
					AGT
S	S	R	F	S	P
					D
					S
					Y
					I
					D
					N
					R
					S
					V
					N
					S
1197	1206	1215	1224	1233	1242
GCA	GGG	CTT	CAC	ACG	GTG
					CAG
					AGA
					GCA
					CCC
					CGA
					CTG
					AAC
					CAC
					CCG
					CCT
A	G	L	H	T	V
					Q
					R
					A
					P
					R
					L
					N
					H
					P
					P
					E
					Q
1251	1260	1269	1278	1287	1296
ATA	GAC	TCT	CAC	TCA	AGA
					CTA
					CCC
					CAT
					AGC
					GCA
					CAC
					CCC
					TCG
					GGA
					AAA
					CCA
					CCA
I	D	S	H	S	R
					L
					P
					H
					S
					A
					H
					P
					S
					G
					K
					P
					P
					P
1305	1314	1323	1332	1341	1350
TCC	GCT	CCA	GCC	TCG	GCA
					CCT
					CAG
					AAT
					GTA
					TTT
					AGT
					ACT
					GTG
					AGC
					AGT
					GGT
S	A	P	A	S	A
					P
					Q
					N
					V
					F
					S
					T
					T
					V
					S
					S
					G

FIGURE 2E

TAT	AAC	ACC	AAA	AAA	ATA	GGC	AAG	AGG	CTT	AAT	ATC	CAG	CTT	AAG	AAA	GGT	ACA
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Y	N	T	K	K	I	G	K	R	L	N	I	Q	L	K	K	G	T
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1413			1422			1431			1440			1449			1395		1404
GAA	GGT	TTG	GGA	TTC	AGC	ATC	ACT	TCC	AGA	GAT	GTA	ACA	ATA	GGT	GGC	TCA	GCT
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
E	G	L	G	F	S	I	T	S	R	D	V	T	I	G	G	S	A
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1467			1476			1485			1494			1503			1512		
CCA	ATC	TAT	GTG	AAA	AAC	ATT	CTC	CCC	CGG	GGG	GCG	GCC	ATT	CAG	GAT	GGC	CGA
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
P	I	Y	V	K	N	I	L	P	R	G	A	A	I	Q	D	G	R
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1521			1530			1539			1548			1557			1566		
CTT	AAG	GCA	GGA	GAC	AGA	CTT	ATA	GAG	GTA	AAT	GGA	GTA	GAT	TTA	GTG	GGC	AAA
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
L	K	A	G	D	R	L	I	E	V	N	G	V	D	L	V	G	K
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1575			1584			1593			1602			1611			1620		
TCC	CAA	GAG	GAA	GTT	GTT	TCG	CTG	TTG	AGA	AGC	ACC	AAG	ATG	GAA	GGA	ACT	GTG
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S	Q	E	E	V	V	S	L	L	R	S	T	K	M	E	G	T	V

FIGURE 2F

On the 29th of April, 1865, he was buried in the cemetery of the First Presbyterian Church, in the city of New York.

1629	1638	1647	1656	1665	1674
AGC CTT CTG GTC TTT CGC CAG GAA GAC GCC TTC CAC CCA AGG GAA CTG AAT GCA	-----	-----	-----	-----	-----
S L L V F R Q E D A F H P R E L N A	-----	-----	-----	-----	-----
1683	1692	1701	1710	1719	1728
GAG CCA AGC CAG ATG CAG ATT CCA AAA GAA ACG AAA GCA GAA GAT GAG GAT ATT	-----	-----	-----	-----	-----
E P S Q M Q I P K E T K A E D E D I	-----	-----	-----	-----	-----
1737	1746	1755	1764	1773	1782
GTT CCT ACA CCT GAT GGC ACC AGG GAA TTT CTG ACA TTT GAA GTC CCA CTT AAT	-----	-----	-----	-----	-----
V L T P D G T R E F L T F E V P L N	-----	-----	-----	-----	-----
1791	1800	1809	1818	1827	1836
GAT TCA GGA TCT GCA GGC CTT GGT GTC AGT GTC AAA GGT AAC CGG TCA AAA GAG	-----	-----	-----	-----	-----
D S G S A G L G V S V K G N R S K E	-----	-----	-----	-----	-----
1845	1854	1863	1872	1881	1890
AAC CAC GCA GAT TTG GGA ATC TTT GTC AAG TCC ATT ATT AAT GGA GGA GCA GCA	-----	-----	-----	-----	-----
N H A D L G I F V K S I I N G G A A	-----	-----	-----	-----	-----

FIGURE 2G

卷之三

1899	1908	1917	1926	1935	1944
TCT AAA GAT GGA AGG CTT CGG GTG AAT GAT CAA CTG ATA GCA GTA AAT GGA GAA	-----	-----	-----	-----	-----
S K D G R L R V N D Q L I A V N G E	-----	-----	-----	-----	-----
1953	1962	1971	1980	1989	1998
TCC CTG TTG GGC AAG ACA AAC CAA GAT GCC ATG GAA ACC CTA AGA AGG TCT ATG	-----	-----	-----	-----	-----
S L L G K T N Q D A M E T L R R S M	-----	-----	-----	-----	-----
2007	2016	2025	2034	2043	2052
TCT ACT GAA GGC AAT AAA CGA GGA ATG ATC CAG CTT ATT GTT GCA AGG AGA ATA	-----	-----	-----	-----	-----
S T E G N K R G M I Q L I V A R R I	-----	-----	-----	-----	-----
2061	2070	2079	2088	2097	2106
AGC AAG TGC AAT GAG CTG AAG TCA CCT GGG AGC CCC CCT GGA CCT GAG CTG CCC	-----	-----	-----	-----	-----
S K C N E L K S P G S P P G P E L P	-----	-----	-----	-----	-----
2115	2124	2133	2142	2151	2160
ATT GAA ACA GCG TTG GAT GAT AGA GAA CGA AGA ATT TCC CAT TCC CTC TAC AGT	-----	-----	-----	-----	-----
T E T A L D R E B I S H S L Y S	-----	-----	-----	-----	-----

FIGURE 2H

卷之三

2169	GGG	ATT	GAG	GGG	CTT	GAT	GAA	TCG	CCC	AGC	AGA	AAT	GCT	GCC	CTC	AGT	AGG	ATA	2214
2178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2205
2187	G	I	E	G	L	D	E	S	P	S	R	N	A	A	L	S	R	I	2196
2223	ATG	GGT	GAG	TCA	GGT	AAA	TAC	CAG	CTG	TCC	CCT	ACA	GTG	AAT	ATG	CCC	CAA	GAT	2268
2232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2259
2241	M	G	E	S	G	K	Y	Q	L	S	P	T	V	N	M	P	Q	D	2250
2277	GAC	ACT	GTC	ATT	ATA	GAA	GAT	GAC	AGG	TTG	CCA	GTG	CTT	CCT	CCA	CAT	CTC	TCT	2322
2286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2304
2295	D	T	V	I	I	E	D	D	R	L	P	V	L	P	P	H	L	S	2313
2340	GAC	CAG	TCC	TCT	TCC	AGC	TCC	CAT	GAT	GAT	GGG	TTT	GTG	ACG	GCA	GAT	GCT	GCT	2367
2349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2358
2331	D	Q	S	S	S	S	H	D	D	V	G	F	V	T	A	D	A	2376	
2385	GGT	ACT	TGG	GCC	AAG	GCT	GCA	ATC	AGT	GAT	TCA	GCC	GAC	TGC	TCT	TTG	AGT	CCA	2430
2394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2412
2403	G	T	W	A	K	A	A	I	S	D	S	A	D	C	S	L	S	P	2421

FIGURE 21

卷之三

2439	GAT	GTT	GAT	CCA	GTT	CTT	GCT	TTT	CAA	CGA	GAA	GGA	TTT	GGA	CGT	CAG	AGT	ATG	2484
2448																			2475
2457																			2466
2493	D	V	D	P	V	L	A	F	Q	R	E	G	F	G	R	Q	S	M	2538
2502																			2529
2509	TCA	GAA	AAA	CGC	ACA	AAG	CAA	TTT	TCA	GAT	GCC	AGT	CAA	TTG	GAT	TTC	GTT	AAA	2539
2556																			2574
2547	ACA	CGA	AAA	TCA	AAA	AGC	ATG	GAT	TTA	GGT	ATA	GCT	GAC	GAG	ACT	AAA	CTC	AAT	2592
2610																			2583
2619	T	R	K	S	K	S	M	D	L	G	I	A	D	E	T	K	L	N	2637
2664																			2628
2655	GGT	CTG	AAG	TCA	AAG	TCG	TCG	TTG	GAG	AGT	CTG	CAG	ACC	GCA	GTT	GCC	GAG	GTG	2646
	G	L	K	K	S	S	S	L	E	S	L	E	S	T	A	V	A	E	2700

## FIGURE 2J

卷之三

2709	2718	2727	2736	2745	2754
ACT	TTG	AAT	GGG	GAT	ATT
CCT	TTC	CAT	CGT	CCA	CGG
---	---	---	---	---	---
T	L	N	G	D	I
P	F	H	R	P	R
R	G	C	N	E	S
2763	2772	2781	2790	2799	2808
AGG	GGA	TGC	AAT	GAG	AGC
TTC	GGC	AGC	TTC	AGA	GCT
---	---	---	---	---	---
R	G	C	N	E	S
F	R	A	A	I	D
2817	2826	2835	2844	2853	2862
GCG	GTA	GAT	GAT	GAA	GGC
ATG	GAG	ATG	GAG	ACC	TTC
---	---	---	---	---	---
A	V	D	D	E	G
D	D	D	E	M	E
2871	2880	2889	2898	2907	2916
AGT	TCA	AGA	TCA	GGG	AGA
TCT	GAG	AAT	GAG	TCT	GTA
---	---	---	---	---	---
S	S	R	S	G	R
E	S	V	S	V	S
2925	2934	2943	2952	2961	2970
TCT	CTG	GAG	AGA	CAA	ATG
---	---	---	---	---	---
S	L	E	R	O	M
O	N	G	N	O	E
E	K	G	D	K	T
H	P	S	H	R	R

FIGURE 2K

2979	2988	2997	3006	3015	3024
AAA AAG GAT AAA ACT GGA AAA GAA AAG AAG AAA GAT AGA GAT AAG GAG AAG GAT					
--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---
K K D K T G K E K K D R D K E K D					
3033	3042	3051	3060	3069	3078
AAA ATG AAA GCC AAG AAG GGA ATG CTG AAG GGC TTG GGA GAC ATG TTC AGG TTT					
--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---
K M K A K K G M L K G L G D M F R F					
3087	3096	3105	3114	3123	3132
GGC AAA CAT CGA AAA GAT GAC AAG ATT GAG AAA ACG GGT AAA ATA AAA ATA CAG					
--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---
G K H R K D D K I E K T G K I K I Q					
3141	3150	3159	3168	3177	3186
GAA TCC TTT ACA TCA GAA GAG GAG AGG ATA CGA ATG AAG CAG GAG CAG GAG AGG					
--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---
E S F T S E E R I R M K Q E Q E R					
3195	3204	3213	3222	3231	3240
ATT CAA GCC AAA ACT CGA GAA TTT AGG GAA CGA CAA GCT CGA GAG CGT GAC TAT					
--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---	--- --- --- --- --- ---
I Q A K T R E F R E R Q A R E R D Y					

FIGURE 2L

3249	GCT	GAA	ATT	CAA	GAT	TTT	CAT	CGG	ACA	TTT	GGC	TGT	GAT	GAG	TTA	ATG	TAT	3249
A	E	I	Q	D	F	H	R	T	F	G	C	D	D	E	L	M	Y	
G	G	V	S	S	Y	E	G	S	M	A	L	N	A	R	P	Q	S	
3303	GGG	GGA	GTT	TCT	TCT	TAT	GAA	GGT	TCC	ATG	GCT	CTC	AAC	GCT	AGA	CCT	CAG	AGC
																		3348
3312																		3339
																		3348
3357	CCA	CGA	GAA	GGG	CAT	ATG	ATG	GAT	GCT	TTG	TAT	GCC	CAA	GTC	AAG	AAG	CCG	CGG
P	R	E	G	H	M	M	D	A	L	Y	A	Q	V	K	K	P	R	
																		3402
3411	AAT	TCC	AAA	CCC	TCA	CCT	GTA	GAC	AGT	AAC	AGA	TCA	ACT	CCT	AGC	AAT	CAT	GAT
N	S	K	P	S	P	V	D	S	N	R	S	T	P	S	N	H	D	
3465	CGG	ATA	CAG	CGT	CTG	AGG	CAA	GAA	TTT	CAG	CAA	GCA	AAG	CAA	GAT	GAA	GAT	GTA
R	I	Q	R	L	R	Q	E	F	Q	A	Q	K	Q	D	E	D	V	

## FIGURE 2M

3519	3528	3537	3546	3555	3564
GAA	GAT	CGT	CGG	CGG	CGG
T	CGG	CGG	ACC	TAT	AGT
				TTT	GAG
				CAA	CCC
				TGG	CCG
				AAC	AAC
				GCA	CGG
				CGG	CCG
E	D	R	R	T	Y
				S	F
				E	Q
				P	W
				P	N
				A	R
				R	P
3573	3582	3591	3600	3609	3618
GCG	ACG	CAG	GGG	CGA	CAC
				TCG	GTG
				TCC	GAG
				GTG	CAG
				ATG	CAG
					CAG
A	T	Q	S	G	R
				H	H
				S	V
				V	S
				E	V
				Q	M
				Q	R
				M	Q
				R	Q
				Q	Q
3627	3636	3645	3654	3663	3672
CGG	CAG	GAG	CGC	GAG	AGC
				TCC	TCC
				CAG	CAG
				CGC	CGC
				CAG	CAG
				TAC	TAC
				AGC	TCT
R	Q	E	F	R	E
				S	S
				Q	Q
				A	Q
				Q	R
				R	Q
				Y	Y
				S	S
				S	L
3681	3690	3699	3708	3717	3726
CCT	CGG	CAA	AGC	AGG	AAA
				AAT	AAT
				GCC	AGC
				TCG	GTC
				TCC	CAG
				GAC	TCT
				TCT	TGG
P	R	Q	S	R	K
				N	N
				A	S
				S	S
				V	V
				S	Q
				Q	D
				D	S
				S	W
				W	E
				E	Q
3735	3744	3753	3762	3771	3780
AAC	TAC	TCC	CCT	GGG	GAA
				GGC	GGC
				TTC	TTC
				CAG	AGT
				GCC	AAA
				AGT	GAG
				GAA	AAC
				CCC	CCC
				AGG	TAC
N	Y	S	P	G	E
				F	G
				S	A
				A	K
				K	E
				E	N
				N	P
				P	R
				R	Y
				Y	S

## FIGURE 2N

3789	3798	3807	3816	3825	3834
AGC TAC CAA GGC TCC AGG AAC GGC TAC CTG GGA CAT GGC TTC AAC GCC AGG					
S Y Q G S R N G Y L G G H G F N A R					
3843	3852	3861	3870	3879	3888
GTC ATG CTG GAA ACT CAG GAG CTC CTT CGC CAG GAA CAG AGG CGG AAG GAG CAG					
V M L E T Q E L L R Q E Q R R K E Q					
3897	3906	3915	3924	3933	3942
CAG ATG AAG AAG CAG CCT CCT TCC GAG GGG CCC AGC AAC TAT GAC TCG TAT AAG					
Q M K K Q P P S E G P S N Y D S Y K					
3951	3960	3969	3978	3987	3996
AAA GTC CAG GAC CCC AGT TAC GCC CCT CCC AAG GGG CCC TTC CGG CAA GAT GTG					
K V Q D P S Y A P P K G P F R Q D V					
4005	4014	4023	4032	4041	4050
CCC CCC TCC CCT TCT CAG GTT GCG AGG CTG AAC AGA CTT CAG ACT CCT GAG AAA					
P P S P S Q V A R L N R L Q T P E K					

FIGURE 20

4059	4068	4077	4086	4095	4104
GGG AGG CCC TTC TAT TCC TGA GCA CGC AAA TAA CGG ATG CTT CAT GTC GCG CAA					
---	---	---	---	---	---
G R P F Y S					
4113	4122	4131	4140	4149	4158
TAA AAG ACA TTT TCC TAT GAA GAC TTG TAT TTT GGG AGT TTT AAA ACC TCG					
4167	4176	4185	4194	4203	4212
ATG GTA CTA TGG AGT ATT TCT GTT GGT ATC AGT GCC TTT AAG CGG TGT AGG					
4221	4230	4239	4248	4257	4266
CAA AGA AAT GGA AGG CCT TAA TGT CTT TGC CAC TAT GTC TCA AGT GTC TGT TTC					
4275	4284	4293	4302	4311	4320
ATG GAA GGA TTT CCC ACC CTG TGA CAA TCA TCT GTT TGA GGT GTT CAT ATG CTC					
4329	4338	4347	4356	4365	4374
TGC GCC TCT CCA CAG TAC CAG GAA TCT CGG CCC TAC TCA TGA GTT GTC CGC GGC					
4383	4392	4401	4410	4419	4428
TTC GTT GTA ACA TCC CTG CAC CAC TTG CAG TGA CAA ATT CAC CTG AAG TGG AGG					
4437	4446	4455	4464	4473	4482
ATG ACG TGC GGC CCT GTT TCT CCC TCT AAG TTC TCT TAG CTA TGG GAT GAC ATC					
4491	4500	4509	4518	4527	4536
TTA GTC TCT GGT GGA GGA AAA GTG GGC GAC ATA CAC CAA AAA TTG GGG CTT TCT					

FIGURE 2P

T G G C T G A T G G C T G C G

4545	4554	4563	4572	4581	4590
GGT ACT TCA CAG CAC AGC CAT T <sup>T</sup> TCG TAC T <sup>T</sup> T GTC ATC ACT GTG GTT T <sup>T</sup> TC TCT					
4599	4608	4617	4626	4635	4644
T <sup>T</sup> TC CTT TCT CAG CTC T <sup>T</sup> TC GTG ACG GGA GAG TCG GTC ATC CTA TTA CAG AAG CTA					
4653	4662	4671	4680	4689	4698
AGC CAT AGT CCA ACA TTG T <sup>T</sup> T GGT CAC CAT GGG GGT CCT TTT GTA ACT GCC TTA					
4707	4716	4725	4734	4743	4752
TGA CTC AAC ATT ACC AAT AAA GTG ATG ATC CTG GTC TGC GTT TAT ACA TAC GCT					
4761	4770	4779	4788	4797	4806
TGT TCG GTC CTG T <sup>T</sup> TC CTG ACA CGT GGG TTG AGT CAC CAC AGC TCT GTG TGG GGA					
4815	4824	4833	4842	4851	4860
ACG TGG GAG ACA GGA GTG GCT CCT GCC GGG GGA AGC TGG GCC CAT TGG CCC					
4869	4878	4887	4896	4905	4914
TGT GTC TAT CAT GAG GGG AGA GCT AAG AAA GAA ATT CTC CTA GGA AGA GCT CAT					
4923	4932	4941	4950	4959	4968
GGC CCA GTA CAT CCT AGT AAT TAT T <sup>T</sup> T AAT TAG T <sup>T</sup> T TTG TTC TGA CAG CTT GTC					
4977	4986	4995	5004	5013	5022
AGG AAG GGC ACA GAA TGG GAC AGA GAT AAA CCA GAC AGT CAT TTT GAT CTG CTC					

FIGURE 2Q

5031	5040	5049	5058	5067	5076
TCT ACG GTT TTT CAA GTC AGA GGC AAT TGA TGC TTG TCT AAT GCA TCC ACA CAC					
5085	5094	5103	5112	5121	5130
TGC ATG TCT GAC TGG CGA TGC CAC GCT CCT AAG TAG TTC TGC CAT GAA ACA TAA					
5139	5148	5157	5166	5175	5184
AAG ACA AAG GAA AAG CCG TTA CAC ATC ACA CAG AGA ACA TTT TCG GGT CCC ACA					
5193	5202	5211	5220	5229	5238
GCG GTG GTG GCA GGA AGC TCA CTC TCG CGT CAG TAT TAG AGT GTG TGT GTG GGT					
5247	5256	5265	5274	5283	5292
CTC GGG GAT CTC GGT GGC TCC CAT CTT CCT TCA TTG TTC TGA ACA TCC TGT ATT					
5301	5310	5319	5328	5337	5346
GTA AAC CAT GGC TGG GGT GCT AAA GTG CCT GTG AAT CCC GAT GTG GAA AAA GCT					
5355	5364	5373	5382	5391	5400
GGA GGT GAA AGC TCA GCA TAC CAT GTA TTT ACT TTA AAA ACA GAA AAA AAG ACA					
5409	5418	5427	5436	5445	5454
TGT ATG GAT ATG TCT ATT TTT TTA TTG GCA CAT TGT ATT TTT GTG TTG ACT					
5463	5472	5481	5490	5499	5508
TGT TTT TAG AAA TGA TGT GTC CAC ACA CGT ACC CGT GTC TCT TCT GCA TTT CTG					

FIGURE 2R

FIGURE 2S

1	M K V T V C F G R T G I V V P C K E G Q L R V G E I T Q Q A	1555118
1	M K V T V C F G R T R V V V P C G D G H M K V F S L I Q Q A	2582063
1	M K V T V C F G R T R V V V P C G D G R M K V F S L I Q Q A	93868778
1	M K V T V C F G R T R V V V P C G D G H M K V F S L I Q Q A	g8037915
31	L Q R Y L K T R E K G P G Y W V K I H H L E Y T D G G I L D	1555118
31	V T R Y R K A I A K D P N Y W I Q V H R L E H G D G G I L D	2582063
31	V T R Y R K A V A K D P N Y W I Q V H R L E H G D G G I L D	g3868778
31	V T R Y R K A I A K D P N Y W I Q V H R L E H G D G G I L D	g8037915
61	P D D V L A D V V E D K D K L I A V F E E Q E P L H K I E S	1555118
61	L D D I L C D V A D D K D R L V A V F D E Q D P H H G G D G	2582063
61	L D D I L C D V A D D K D R L V A V F D E Q D P H H G G D G	g3868778
61	L D D I L C D V A D D K D R L V A V F D E Q D P H H G G D G	g8037915
91	P S G N P A D R Q S P D A F E T E V A A Q - L A A F K P - -	1555118
91	T S A S S T G T Q S P E I F G S E L G T N N V S A F Q P Y Q	2582063
91	T S A S S T G T Q S P E I F G S E L G T N N V S A F R P Y Q	g3868778
91	T S A S S T G T Q S P E I F G S E L G T N N V S A F Q P Y Q	g8037915
118	I G G E I E V T P S A L K L G T P L L V R R S S D P V - - -	1555118
121	A T S E I E V T P S V L R A N M P L H V R S S D P A L I G	2582063
121	T T S E I E V T P S V L R A N M P L H V R S S D P A L T G	g3868778
121	A T S E I E V T P S V L R A N M P L H V R S S D P A L I G	g8037915

FIGURE 3A

FIGURE 3B

卷之三

230	G L F I R G I E D N S R S K R E G L F H E N E C I V K I N N 1555118	230	G L V K R L E K G G K A E H E N L F R E N D C I V R I N D 2582063	260	V D L V D K T F A Q A Q D V F R Q A M K S P S V L L H V L P 1555118	260	G D L R N R R F E Q A Q H M F R Q A M R T P I I W F H V V P 2582063	290	P Q N R E Q Y E K S V I G S L N I F G N N - - - D G V L K 1555118	290	A A N K E Q Y E Q L S Q S E K N N Y Y S S R F S P D S Q Y I 2582063	320	G D L R N R R F E Q A Q H M F R Q A M R T P I I W F H V V P 2582063	320	G D L R N R R F E Q A Q H M F R Q A M R T P I I W F H V V P 2582063	350	A A N K E Q Y E Q L S Q S E K N N Y Y S S R F S P D S Q Y I 2582063	350	A A N K E Q Y E Q L S Q S E K N N Y Y S S R F S P D S Q Y I 2582063	380	T K V P P P V H G K S G L K T A N L T G T D S P E T D A S A 1555118	380	D N R S V N S A G L H T V Q R A P R L N H P P E Q I D S H S 2582063	410	S L Q Q N K S P R V P R L G G K P S S P S - - L S P L M G - 1555118	410	R L P H S A H P S G K P P S A P A S A P Q N V F S T T V S S 2582063	420	R L P H S A H A S T K P P T A P A L A P P N V L S T S V G S 2582063	420	R L P H S A H P S G K P P S A P A S A P Q N V F S T T V S S 2582063	450	D N R S V N S A G L H T V Q R A P R L N H P P E Q I D S H S 2582063	450	G3868778 g8037915	480	D N R S V N S A G L H T V Q R A P R L N H P P E Q I D S H S 2582063	480	G3868778 g8037915	510	S L Q Q N K S P R V P R L G G K P S S P S - - L S P L M G - 1555118	510	R L P H S A H P S G K P P S A P A S A P Q N V F S T T V S S 2582063	540	R L P H S A H P S G K P P S A P A S A P Q N V F S T T V S S 2582063	540	G3868778 g8037915
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FIGURE 3C

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373	- F G S N K N A K K I K I D L K K G P E G L G F T V V T R D	1555118
450	G Y N T K K I G K R L N I Q L K K G T E G L G F S I T S R D	2582063
450	V Y N T K R V G K R L N I Q L K G T E G L G F S I T S R D	g3868778
406	G Y N T K K I G K R L N I Q L K K G T E G L G F S I T S R D	g8037915

402	S S	I H	G P	G P	I F	V K N I	L P	K G A A	I K	D G R L	Q S	G D	1555118
480	V T	I G	S A	P I	Y V	K N I	L P	R G A A	I Q	D G R L	K A G D	2582063	
480	V T	I G	S A	P I	Y V	K N I	L P	R G A A	I Q	D G R L	K A G D	g3868778	
436	V T	I G	S A	P I	Y V	K N I	L P	R G A A	I Q	D G R L	K A G D	g8037915	

432	R I L E V N G R D V T G R T Q E E L V A M I R S T K Q G E T	1555118
510	R L I E V N G V D L V G K S Q E E V V S L L R S T K M E G T	2582063
510	R L I E V N G V D L A G K S Q E E V V S L L R S T K M E G T	93868778
466	R L I E V N G V D L V G K S Q E E V V S L L R S T K M E G T	98037915

462	A [S L V I A R Q E G H F L P R E L K G E P D C C A L S L E T	1555118
540	V S L L V F R Q E D A F H P R E L N A E P S Q M Q I P K E T	2582063
540	V S L L V F R Q E E A F H P R E M N A E P S Q M Q S P K E T	g3868778
496	V S L L V F R Q E D A F H P R E L - - - - - - - - - - -	g8037915

### FIGURE 3D

508	G L G V S L K G N K S R E T G T D L G I F I K S I I H G G A	1555118
600	G L G V S V K G N R S K E N H A D L G I F V K S I I N G G A	2582063
600	G L G V S V K G N R S K E N H A D L G I F V K S I I N G G A	g3868778
543	G L G V S V K G N R S K E N H A D L G I F V K S I I N G G A	g8037915
538	A F K D G R L R M N D Q L I A V N G E S L L G K S N H E A M	1555118
630	A S K D G R L R V N D Q L I A V N G E S L L G K T N Q D A M	2582063
630	A S K D G R L R V N D Q L I A V N G E S L L G K A N Q E A M	g3868778
573	A S K D G R L R V N D Q L I A V N G E S L L G K T N Q D A M	g8037915
568	E T L R R P M S M E G N I R G M I Q L V I L R R - - - - -	1555118
660	E T L R R S M S T E G N K R G M I Q L I V A R R I S K C N E	2582063
660	E T L R R S M S T E G N K R G M I Q L I V A R R I S R C N E	g3868778
603	E T L R R S M S T E G N K R G M I Q L I V A R R I S K C N E	g8037915
592	- - - - - - - P E R P M E D P - A E C G A F S K P C F E	1555118
690	L K S P G S P P G P E L P I E T A L D D R E R R I S H S L Y	2582063
690	L R S P G S P A P E L P I E T E L D D R E R R I S H S L Y	g3868778
633	L K S P G S P P G P E L P I E T A L D D R E R R I S H S L Y	g8037915
612	N C Q N A V T T S R R N D N S I L H P L G T C S P Q D K Q K	1555118
720	S G I E G L D E S P S R N A A L S R I M G E S G K Y Q L S P	2582063
720	S G I E G L D E S P T R N A A L S R I M G E S G K C Q L S P	g3868778
663	S G I E G L D E S P S R N A A L S R I M G - - - K Y Q L S P	g8037915

FIGURE 3E

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642	G L L P N D G W A E S E	- - - - - V P P - - - - - S P	1555118
750	T V N M P Q D D T V I I E D D R L P V L P P H L S D Q S S S	2582063	
750	T V N M P H D D T V M I E D D R L P V L P P H L S D Q S S S	g3868778	
690	T V N M P Q D D T V I I E D D R L P V L P P H L S D Q S S S	g8037915	
660	T P H S A L G L G L E D	- - - - - - - - - - - Y S H S	1555118
780	S S H D D V G F V T A D A G T W A K A A I S D S A D C S L S	2582063	
780	S S H D D V G F I M T E A G T W A K A T I S D S A D C S L S	g3868778	
720	S S H D D V G F V T A D A G T W A K A A I S D S A D C S L S	g8037915	
676	S G V D S A V Y F P D Q H I N F R S V T P A R	- - - - - - - - - - -	1555118
810	P D V D P V L A F Q R E G F G R Q S M S E K R T K Q F S D A	2582063	
810	P D V D P V L A F Q R E G F G R Q S M S E K R T K Q F S N A	g3868778	
750	P D V D P V L A F Q R E G F G R Q	- - - - - - - - - - -	g8037915
699	- Q P E S I N L K A S K S M D L - V P D E S K V H S L A G Q	1555118	
840	S Q L D F V K T R K S K S M D L G T A D E T K L N T V D D Q	2582063	
840	S Q L D F V K T R K S K S M D L G T A D E T K L N T V D D Q	g3868778	
767	- - - - - - - - - - - - - - - - - I A D E T K L N T V D D Q	g8037915	
727	K S E S P S K D F G P T I G L K K S S L E S L Q T A V A E	1555118	
870	K A G S P S R D V G P S L G L K K S S L E S L Q T A V A E	2582063	
870	R A G S P N R D V G P S L G L K K S S L E S L Q T A V A E	g3868778	
780	K A G S P S R D V G P S L G L K K S S L E S L Q T A V A E	g8037915	

FIGURE 3F

757	V R - K N [D L P F H R P R P H M V R G R G C N E S F R A A I	1555118
900	V T L N G D I P F H R P R P R I I R G R G C N E S F R A A I	2582063
900	V T L N G [N I P F H R P R P R I I R G R G C N E S F R A A I	g3868778
810	V T L N G D I P F H R P R P R I I R G R G C N E S F R A A I	g8037915
786	D K S Y D [G P E - E I E A D [G L - - - - S D K [S S H [S G	1555118
930	D K S Y D K P A V D D D D E G M E T L E E D T E E S S R S G	2582063
930	D K S Y D K P [M V D D D D E G M E T L E E D T E E S S R S G	g3868778
840	D K S Y D K P A V D D D D E G M E T L E E D T E E S S R S G	g8037915
809	Q G A L N C E S A P Q G N [S E L E D [M - - - - - - - - E	1555118
960	R E S V S T A S D Q P S H S L E R Q M N Q E K G D K T D	2582063
960	R E S V S T [S S D Q P S [Y S L E R Q M N G [D P E K [R D K [A E	g3868778
870	R E S V S T A S D Q P S H S L E R Q M N G N Q E K G D K T D	g8037915
829	N [K A R [K V K [T K [E K K [K E K G K L K V [K E - - - - -	1555118
990	R K K D K T G K E K K D R D K E K D M K A K K G M L K G	2582063
990	K K K D K [A G K [D K K D R [E K D K L K A K K G M L K G	g3868778
900	R K K D K T G K E K K D R D K E K D M K A K K G M L K G	g8037915
854	- - - - - - - - R [K R K E E N E D - - - - - - - - -	1555118
1020	L G D M F R F G K H R K D D K I E K T G K I K I Q E S F T S	2582063
1020	L G D M F R F G K H R K D D K [M E K [M G R I K I Q [D S F T S	g3868778
930	L G D M F R F G K H R K D D K I E K T G K I K I Q E S F T S	g8037915

FIGURE 3G

FIGURE 3H

FIGURE 31

FIGURE 3J

934 - - - - L S  
1349 E K G R P F Y S  
1330 E K G R P F Y S  
1259 E K G R P F Y S

1555118  
2582063  
g3868778  
g8037915